

FIG. 1

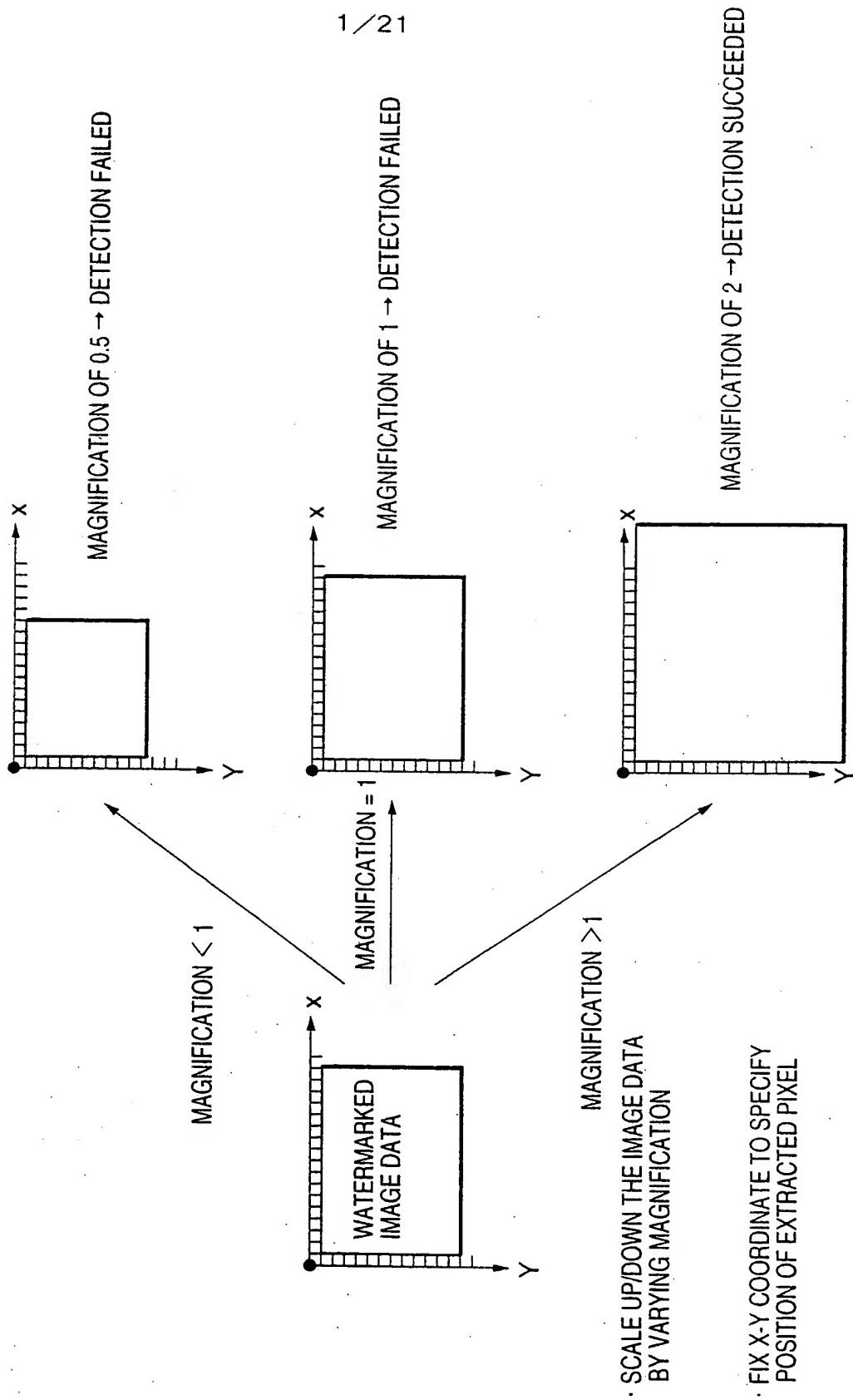


FIG. 2

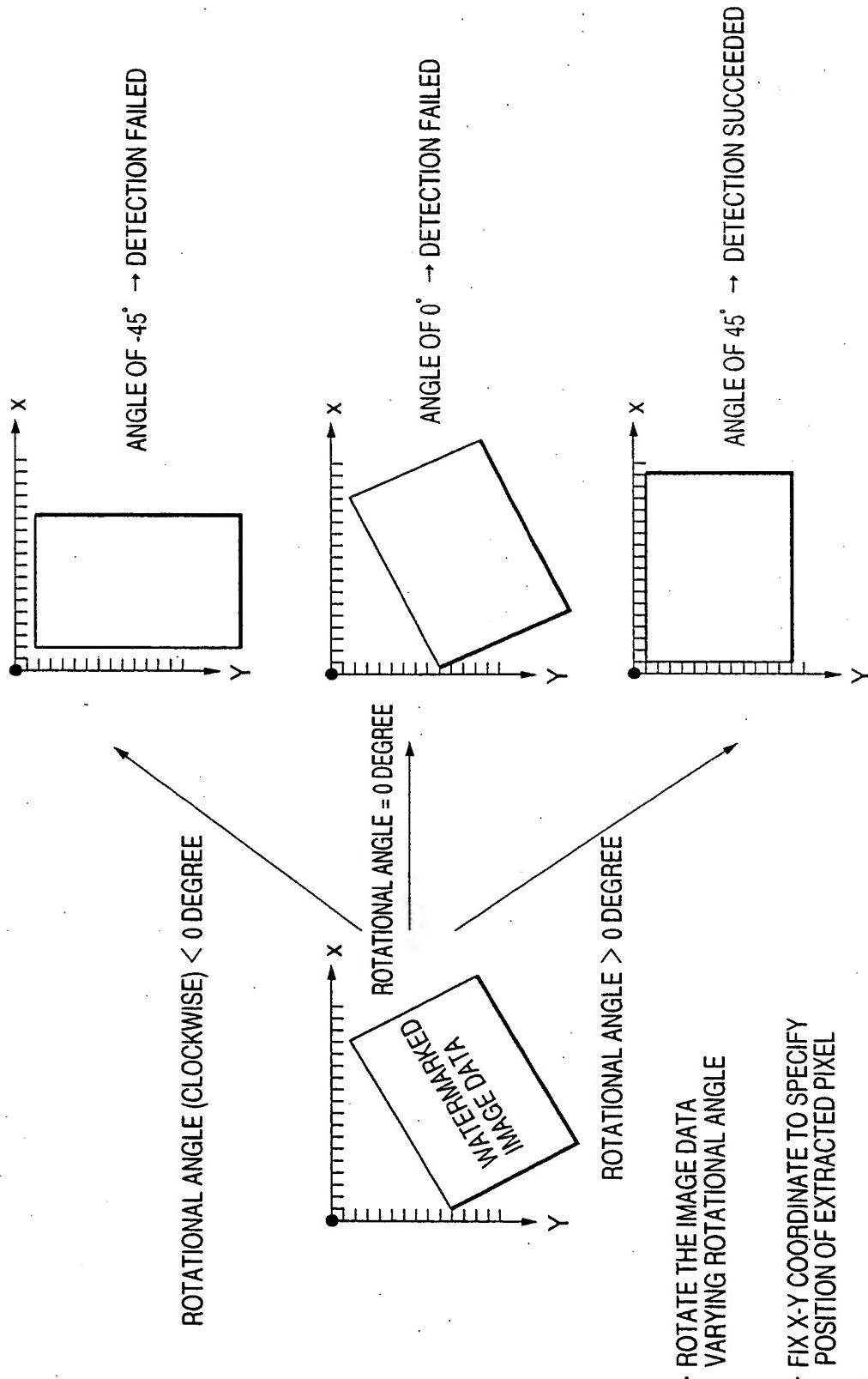


FIG. 3

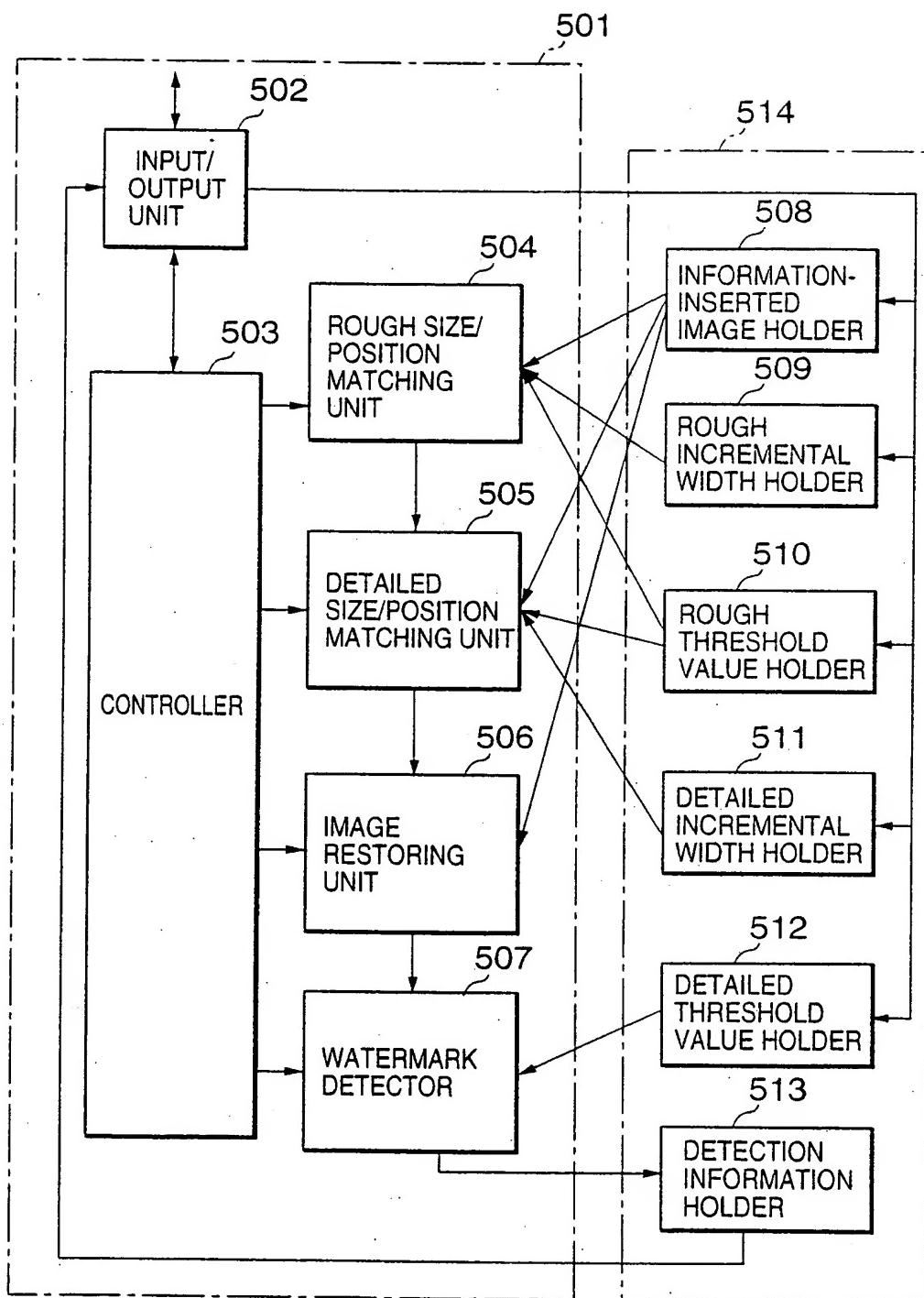


FIG. 4

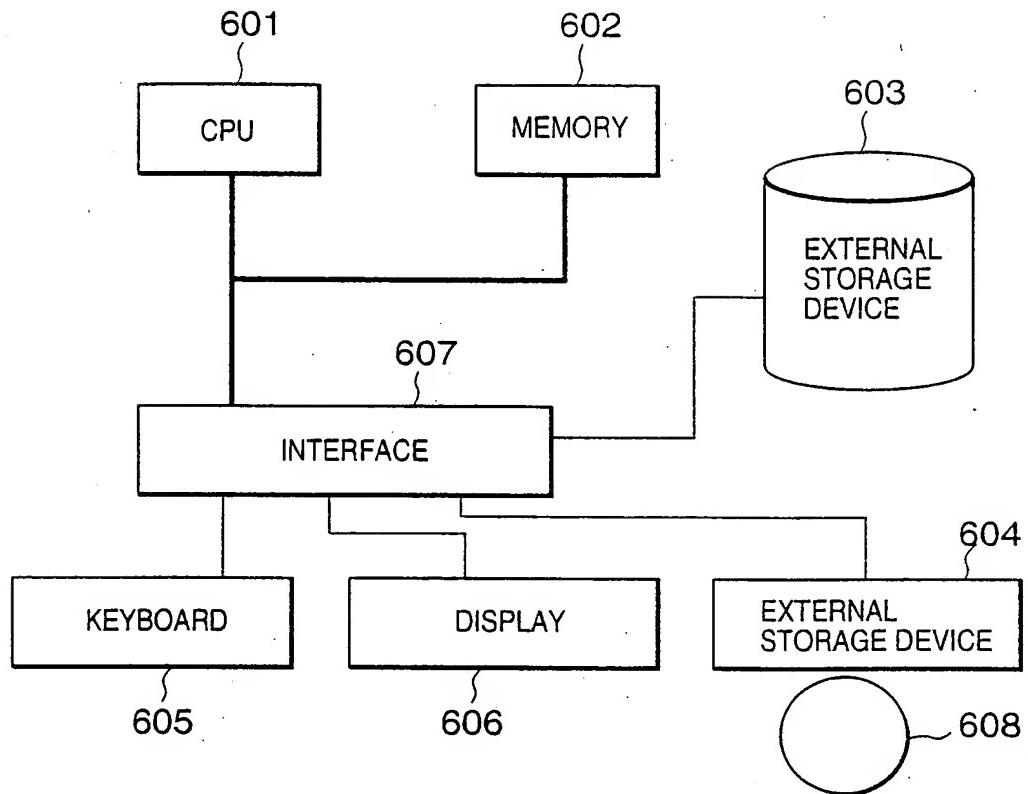


FIG. 5

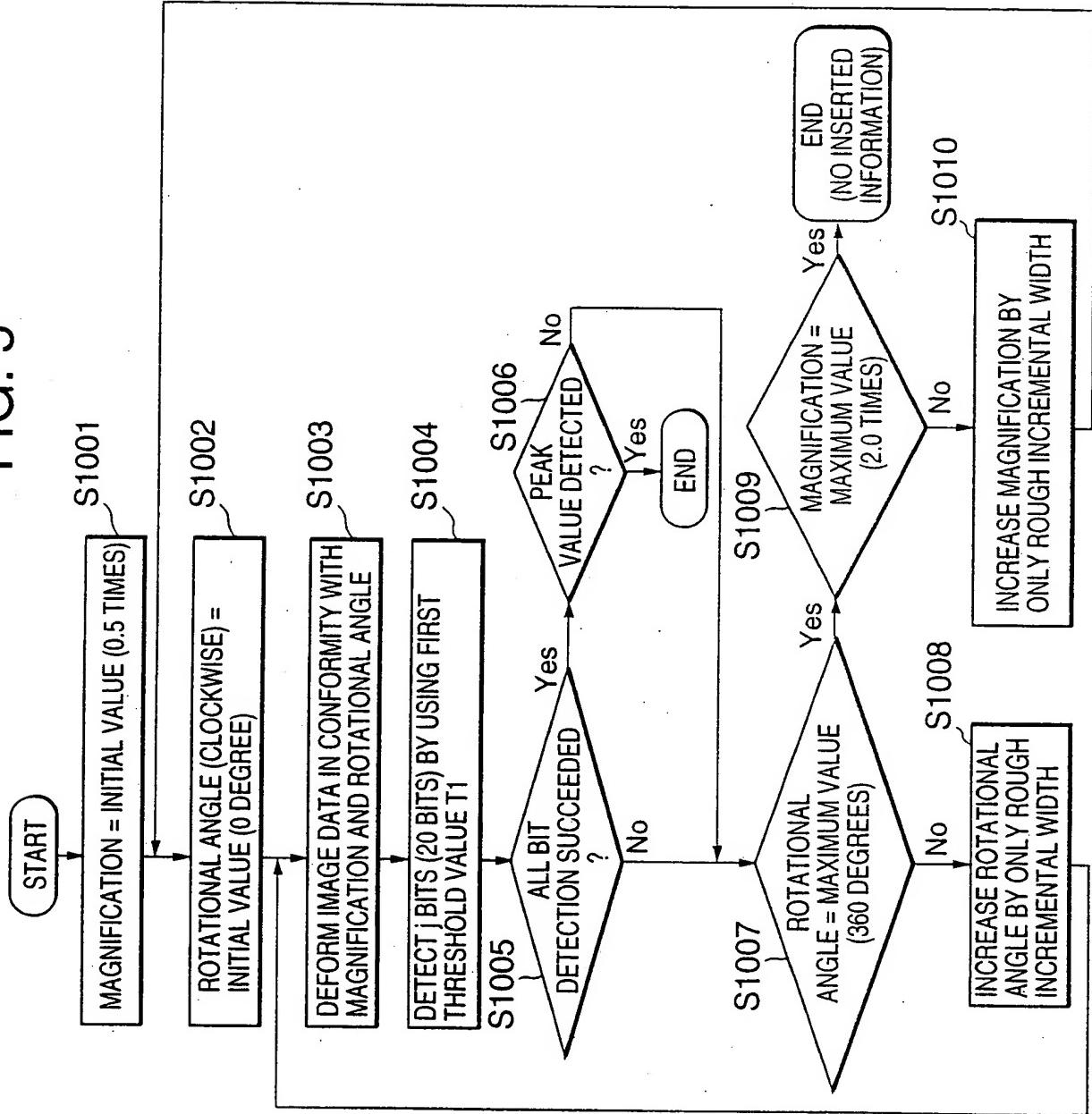


FIG. 6

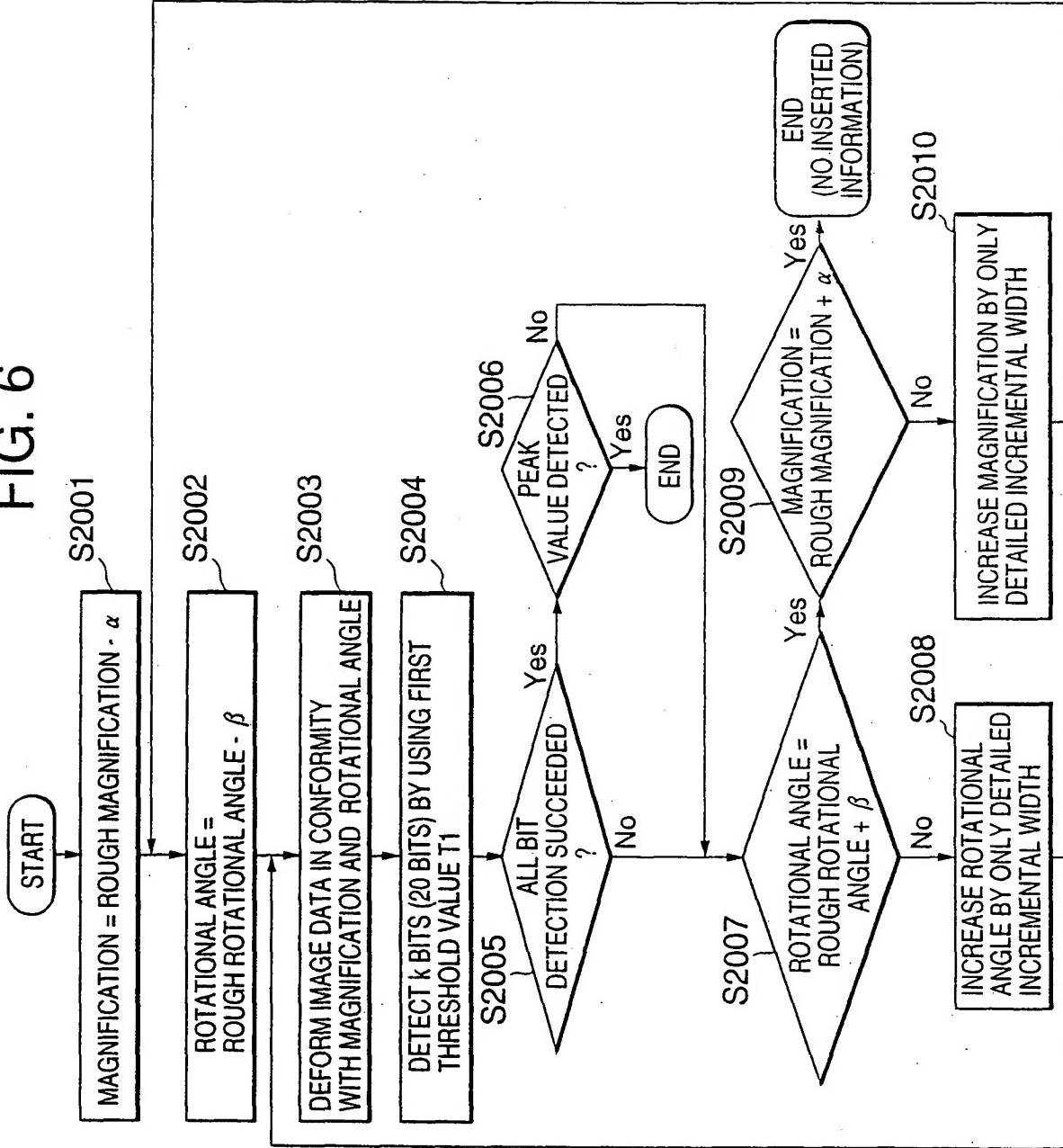


FIG. 7

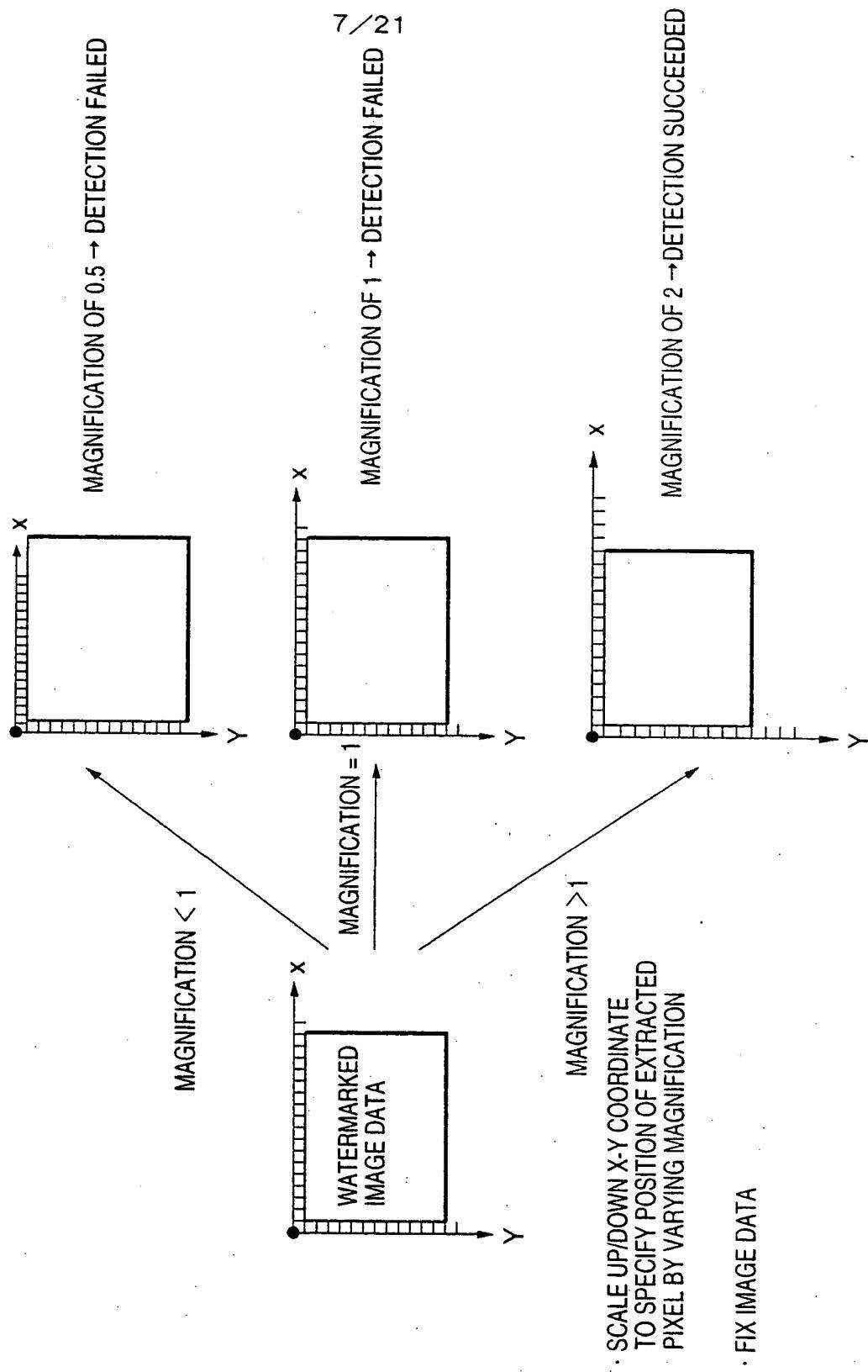


FIG. 8

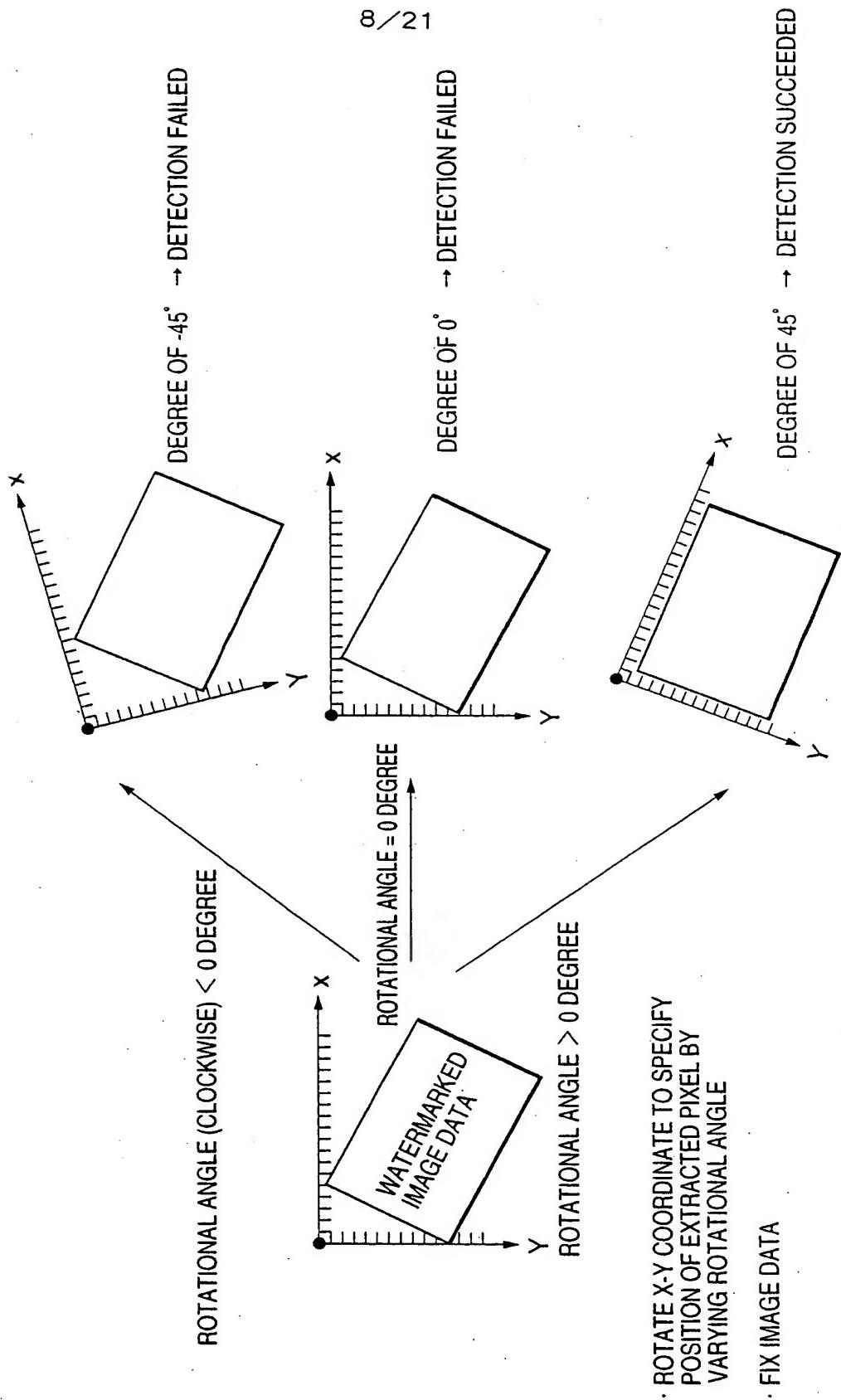


FIG. 9

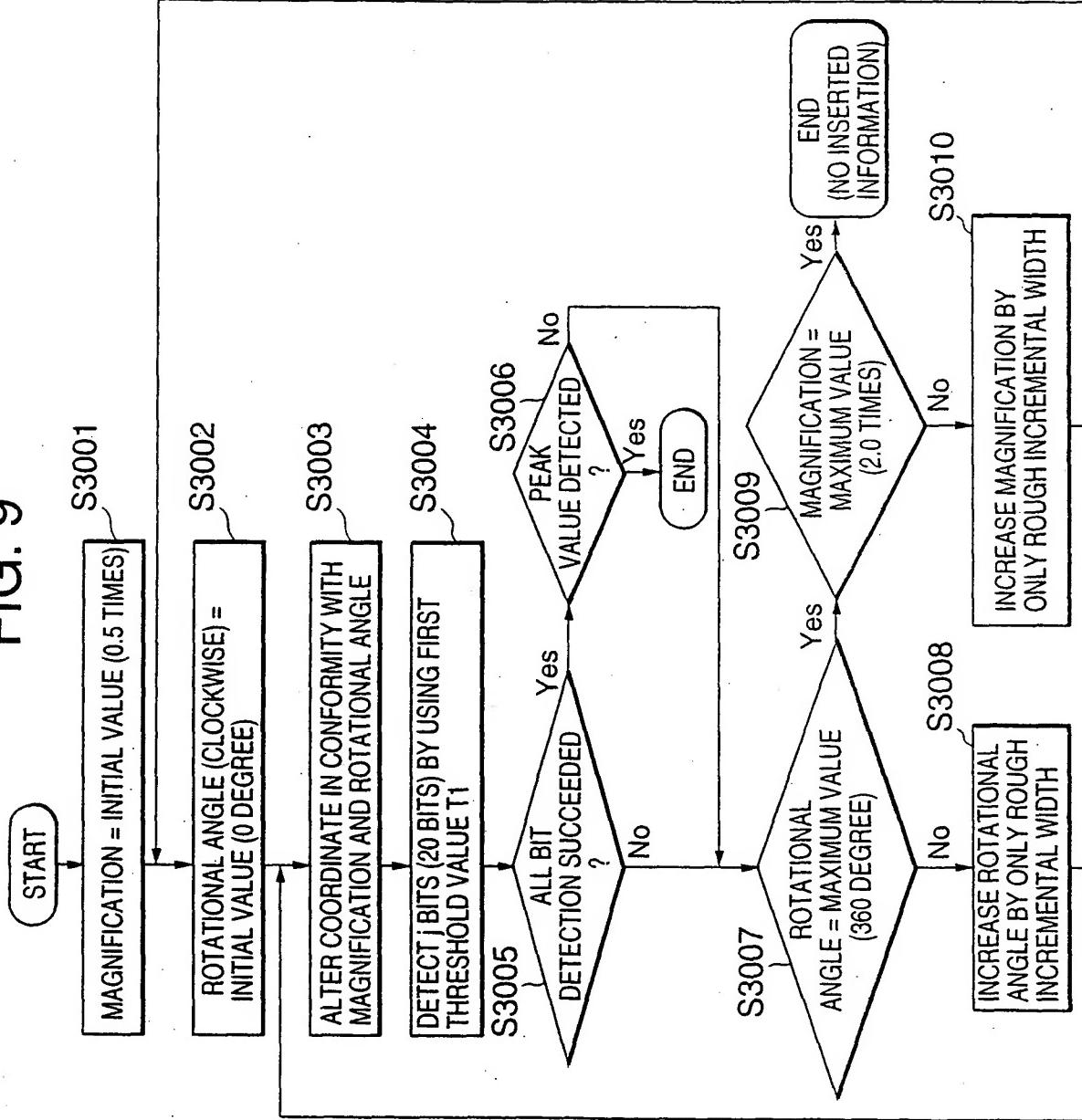


FIG. 10

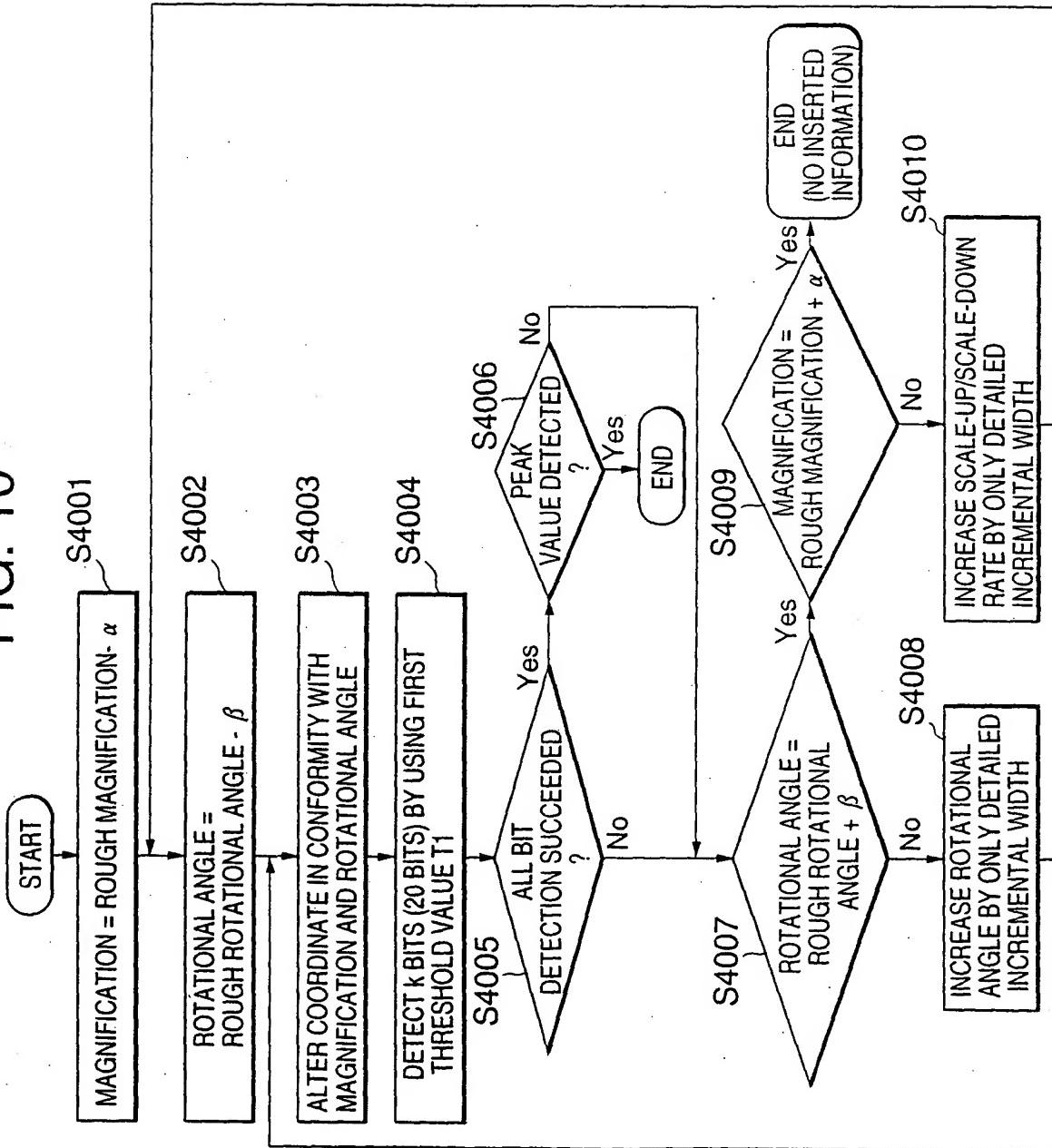
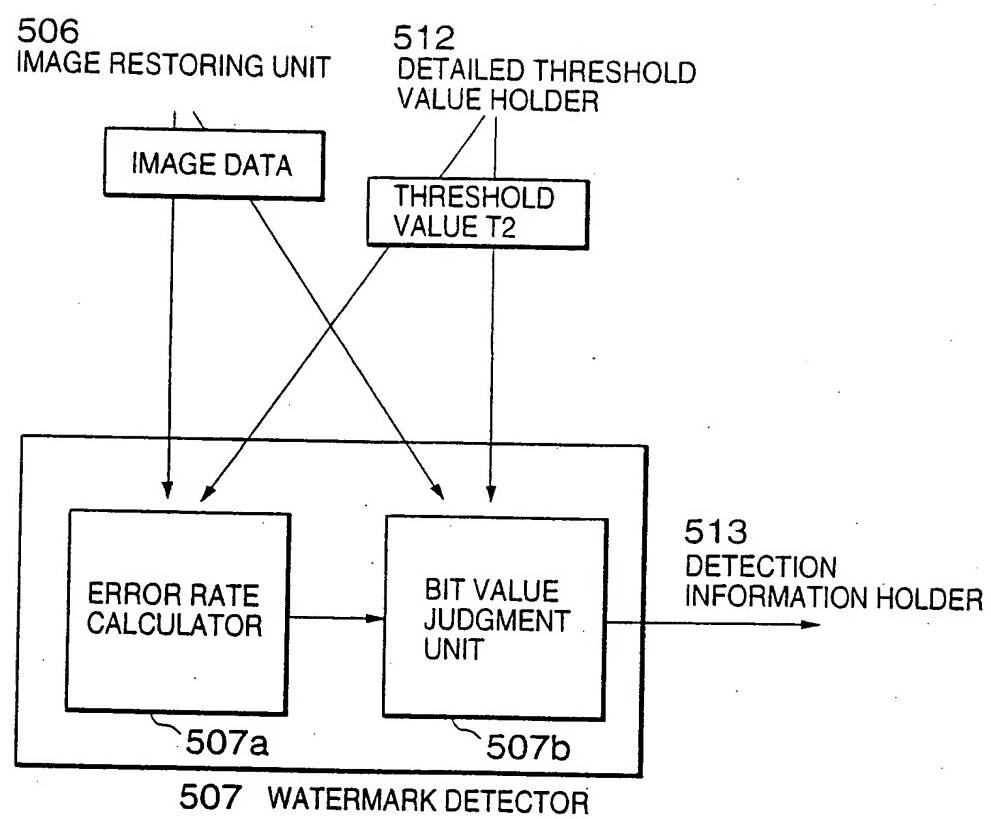


FIG. 11



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FIG. 12A

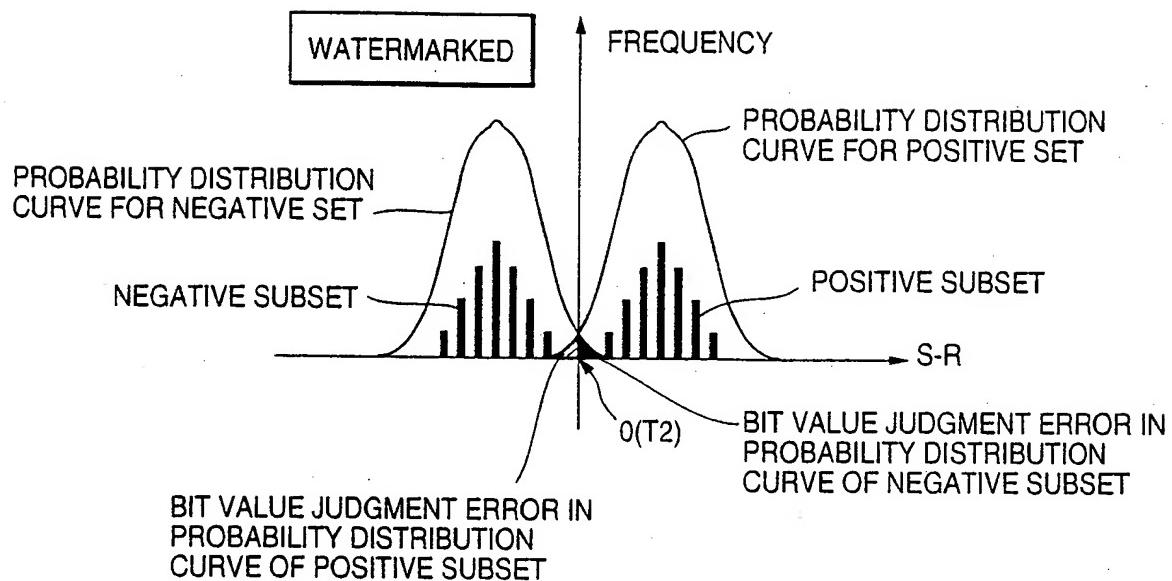


FIG. 12B

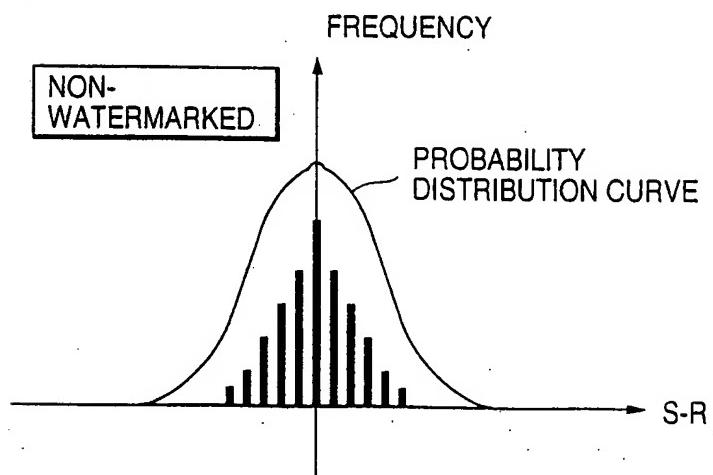


FIG. 13

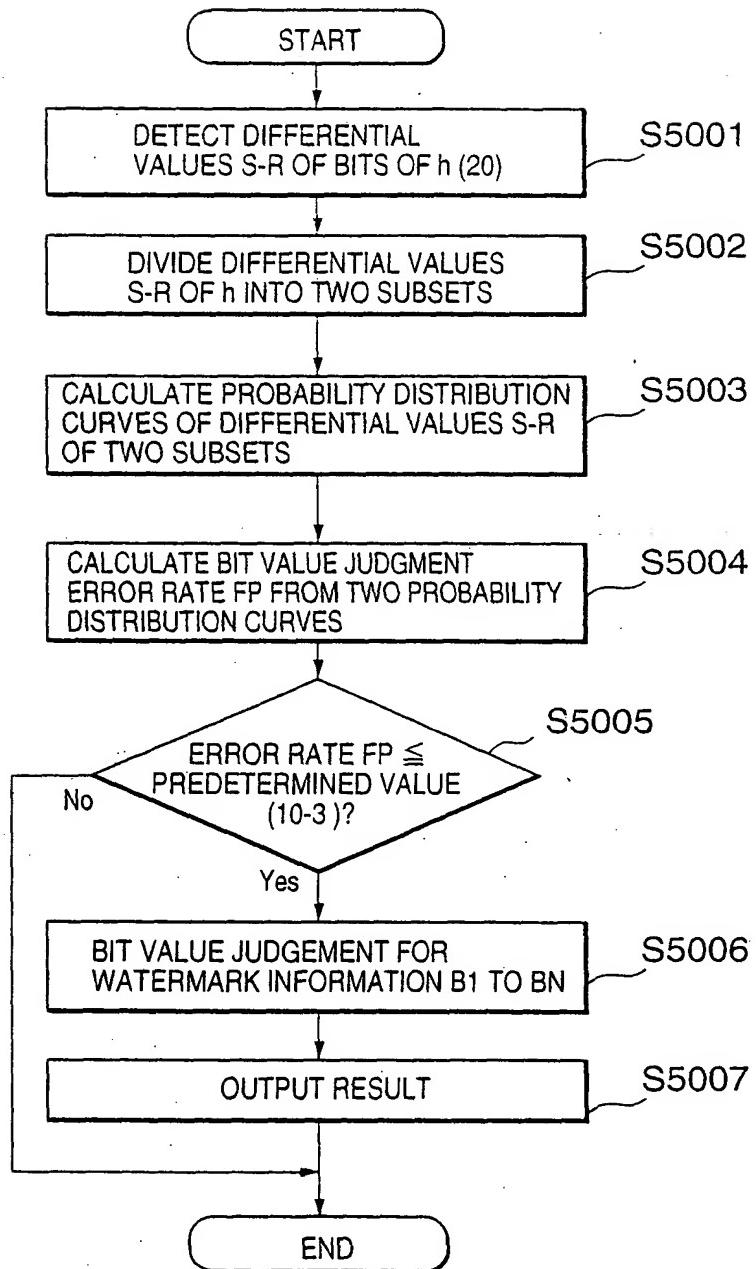


FIG. 14

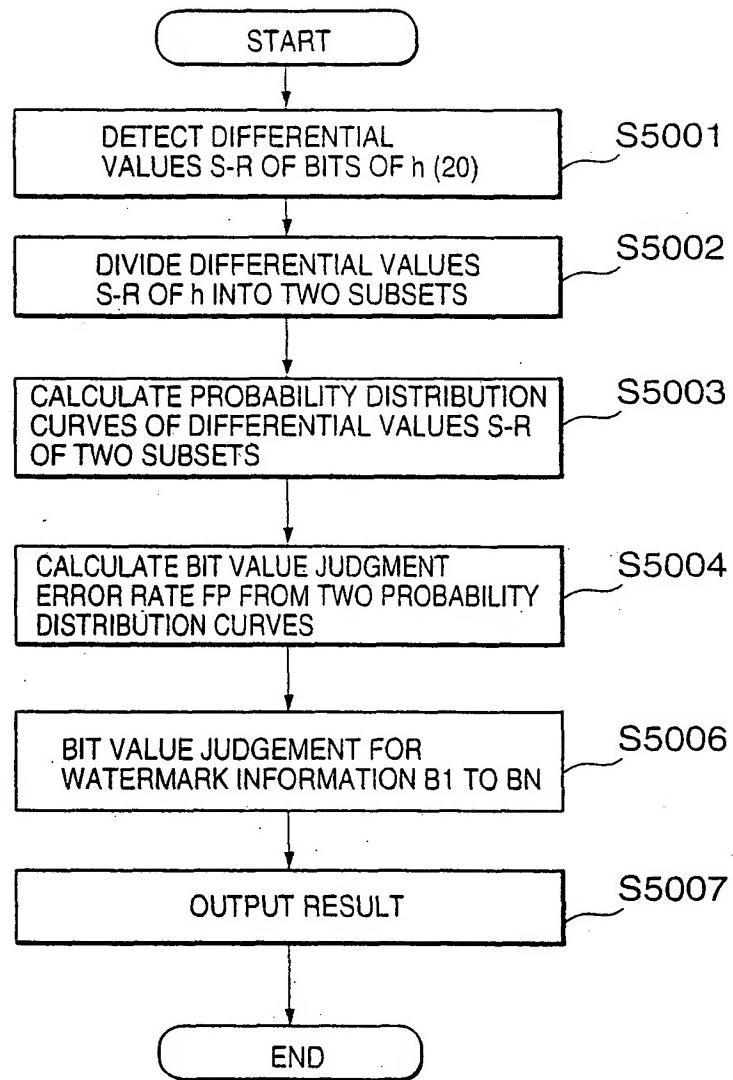


FIG. 15

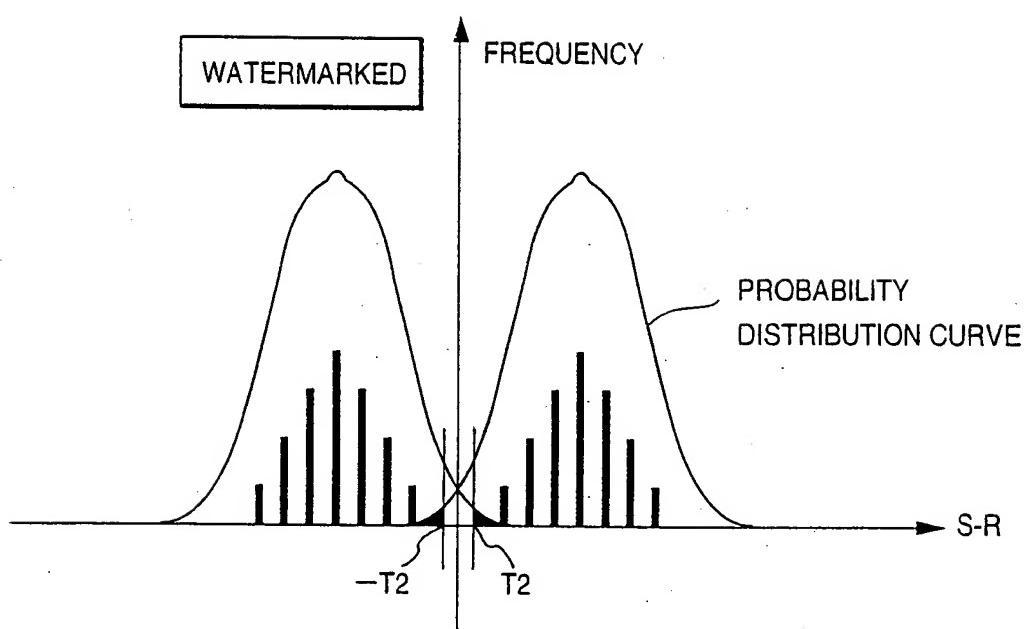


FIG. 16

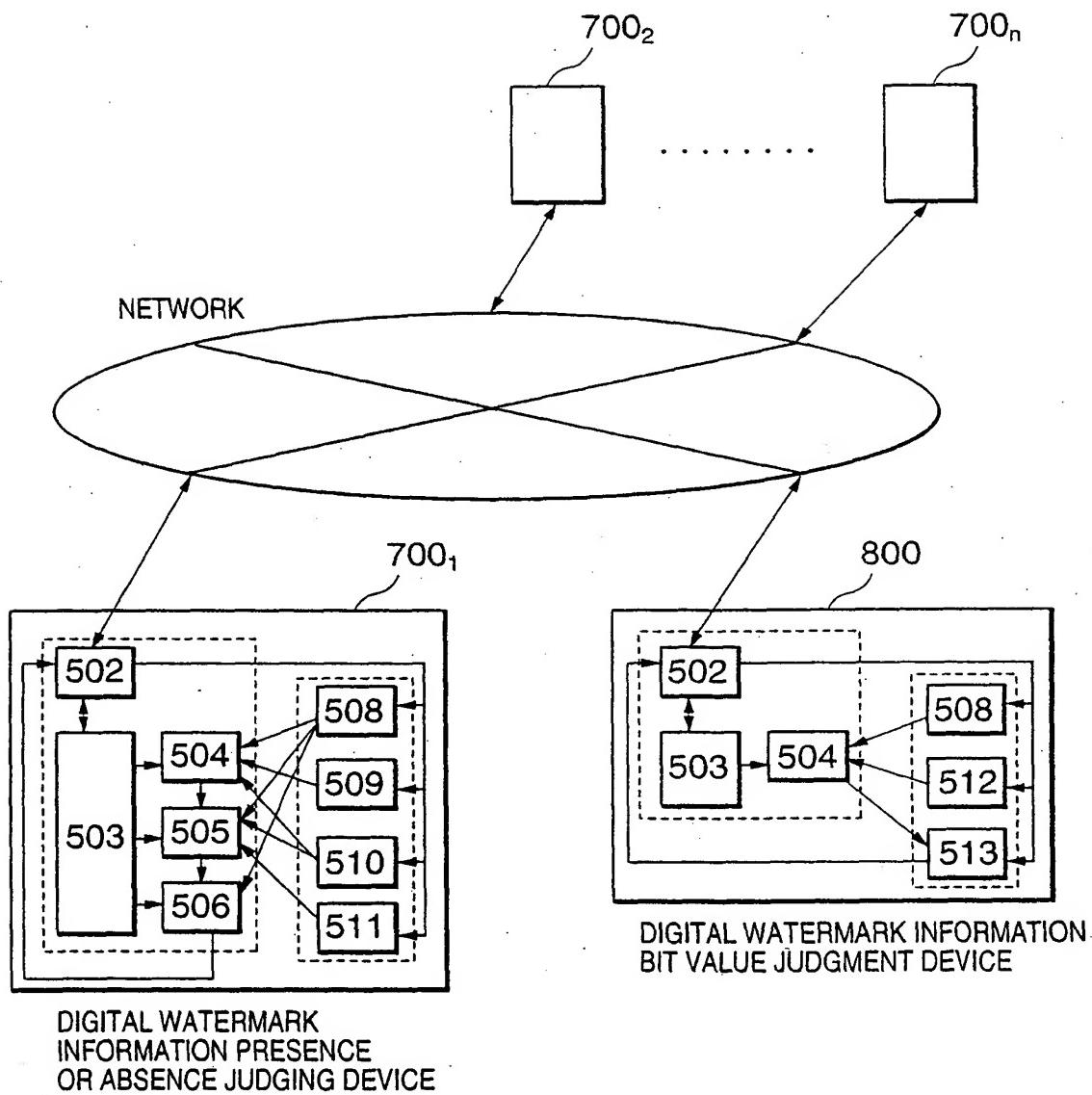


FIG. 17

SHIFT TO Web SERVER 900₁ TO BUILD UP WATERMARK PRESENCE OR ABSENCE JUDGMENT DEVICE 700₁, AND WHEN THERE IS WATERMARK, BIT VALUE JUDGMENT IS REQUESTED TO BIT VALUE JUDGMENT DEVICE 800. AFTER PROCESSING IS FINISHED, SHIFT TO NEXT Web SERVER.

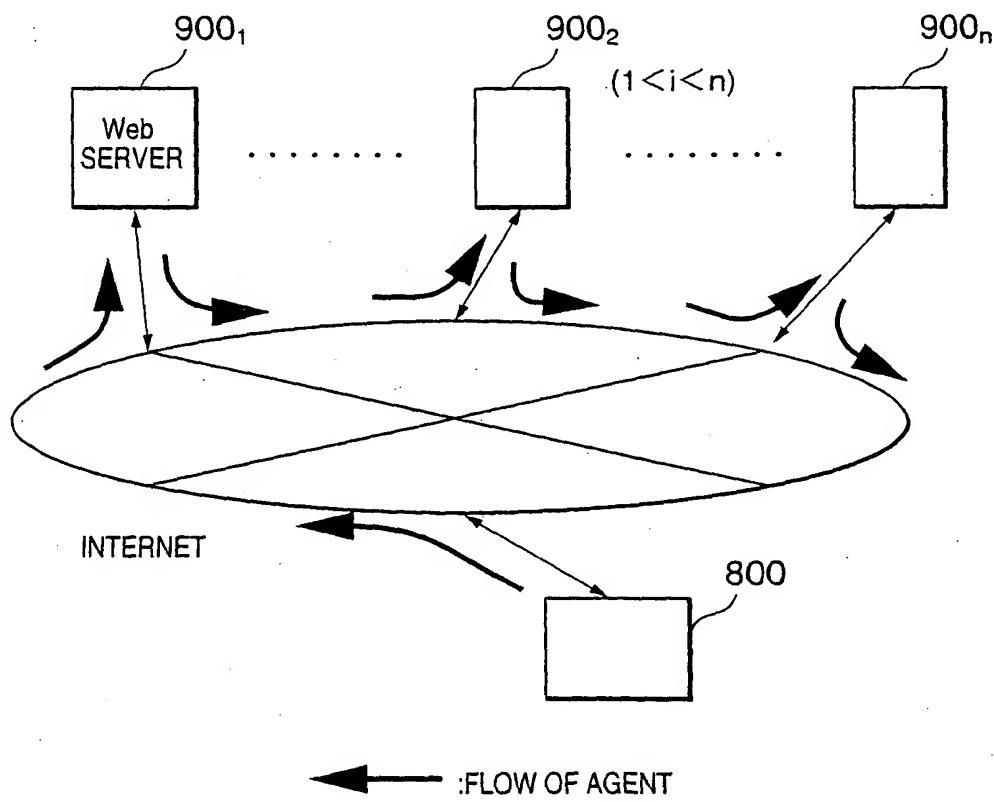
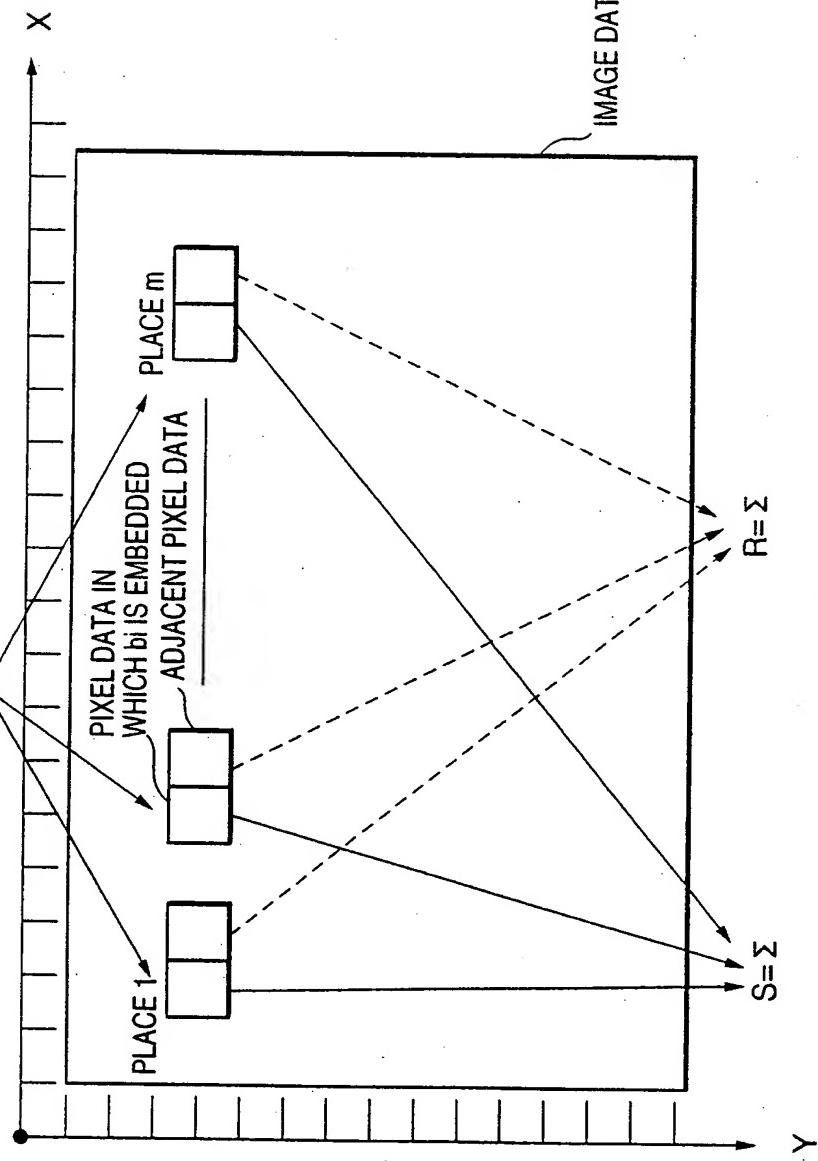


FIG. 18

If $b_i = 1$, BRIGHTNESS INCREASED, AND IF $b_i = 0$,
BRIGHTNESS IS REDUCED



JUDGMENT:
 $S - R > T \rightarrow b_i = 1$ (T REPRESENTS POSITIVE THRESHOLD VALUE)
 $S - R < -T \rightarrow b_i = 0$
 $-T < S - R < T \rightarrow$ NO WATERMARK EMBEDDED

FIG. 19

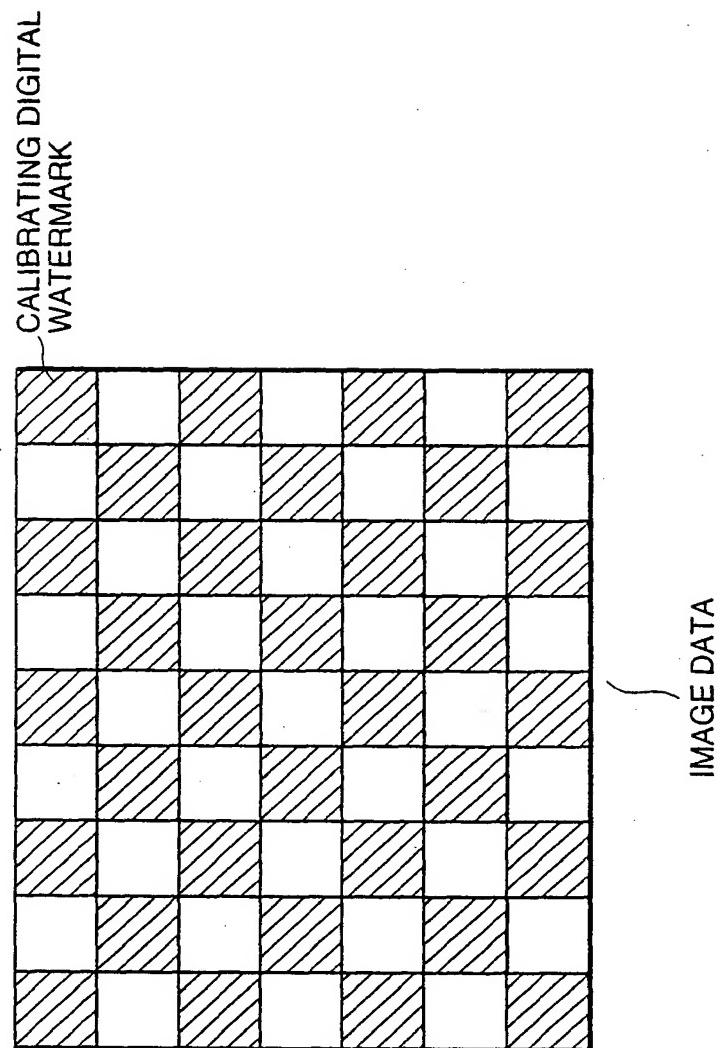


FIG. 20

NO DEVIATION BETWEEN PIXEL DATA ALTERED POSITION AND DETECTING POSITION

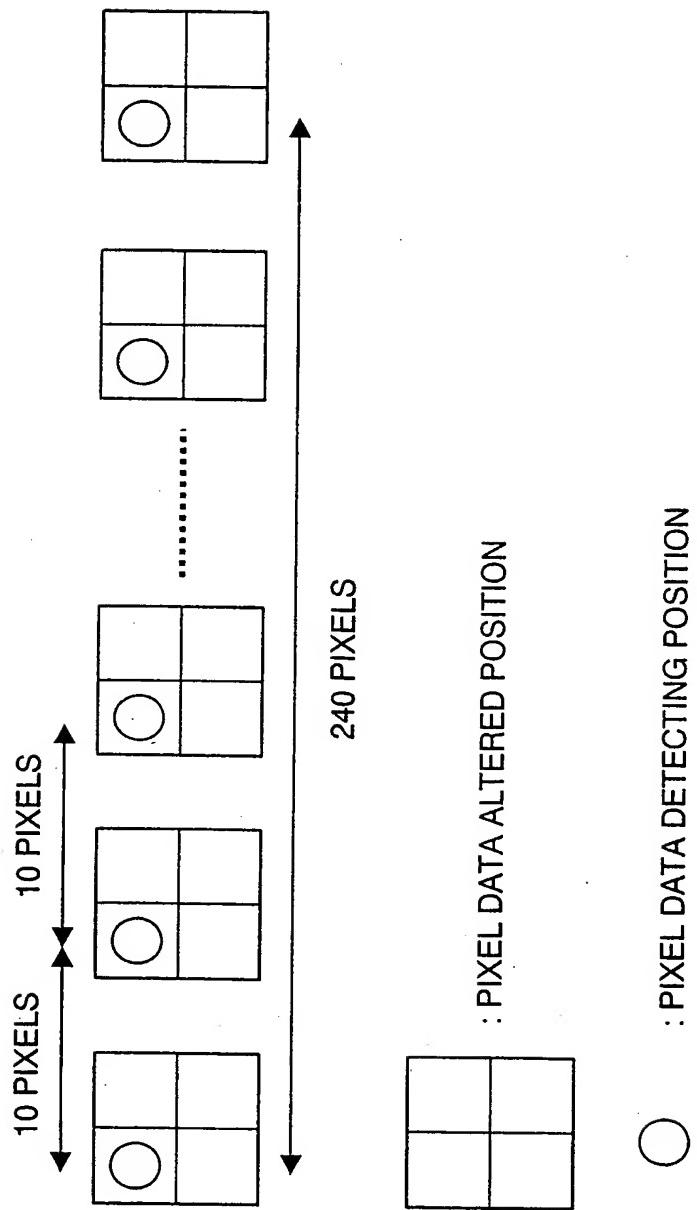


FIG. 21

